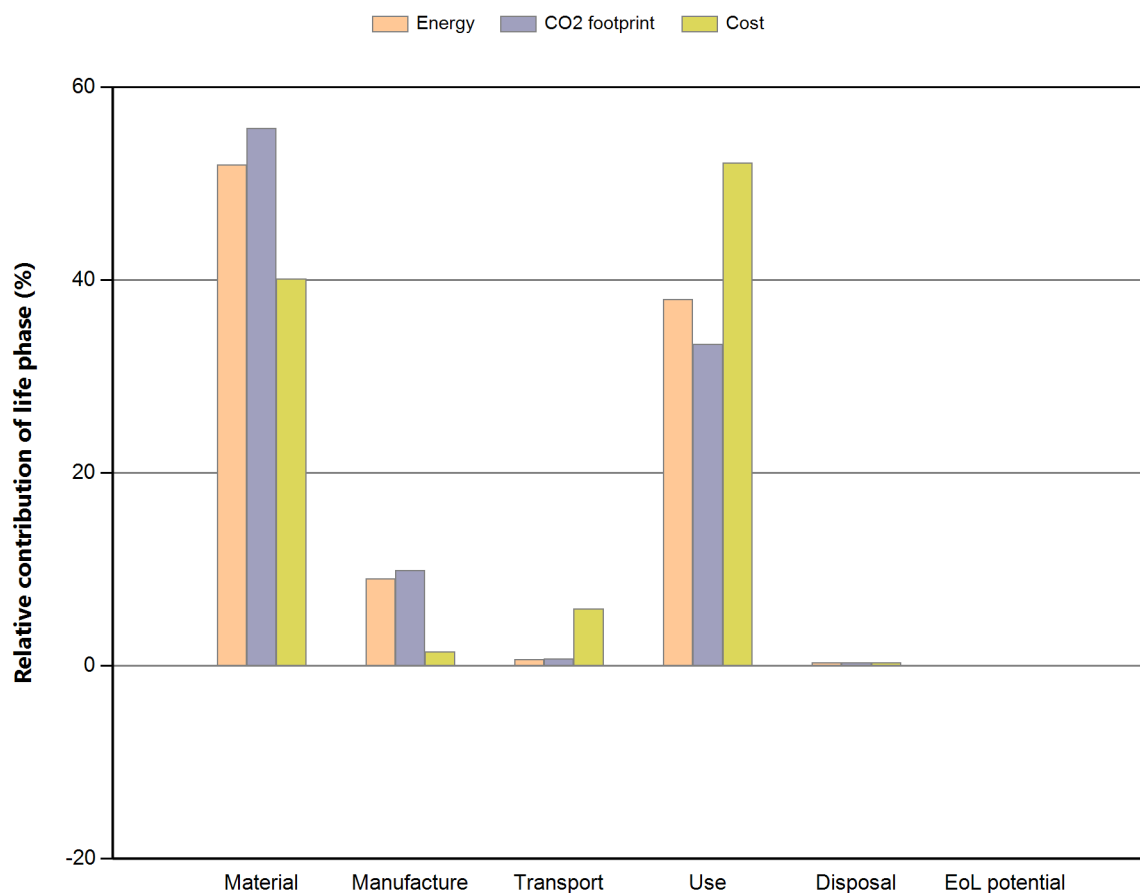


Eco Audit Report

Product name: Beschermkap X120Mn12
Country of manufacture: World
Country of use: World
Product life (years): 10

Summary:



[Energy details](#)

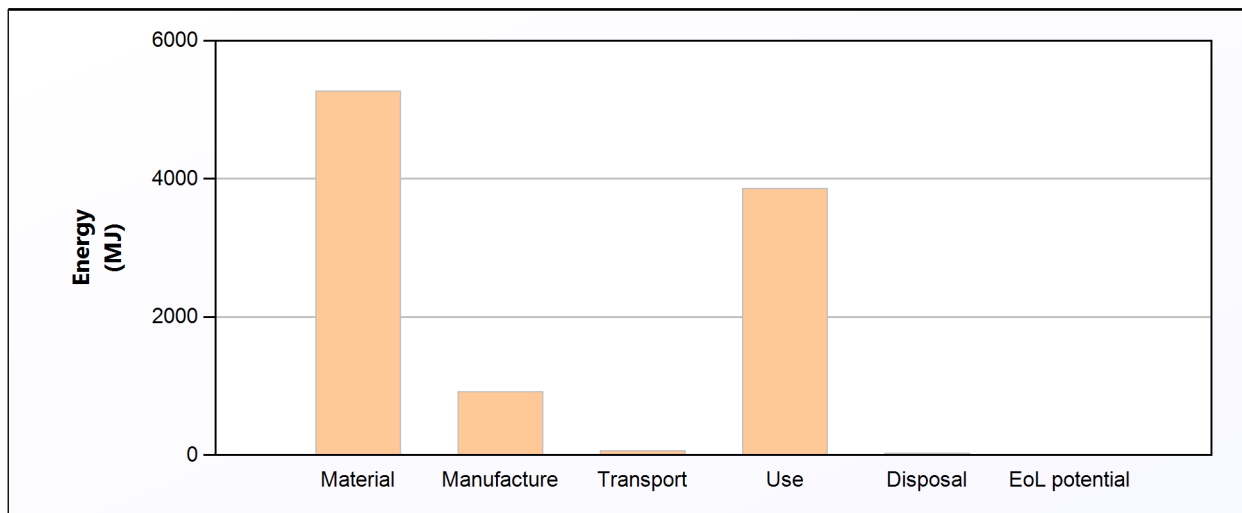
[CO2 footprint details](#)

[Cost details](#)

Phase	Energy (MJ)	Energy (%)	CO2 footprint (kg)	CO2 footprint (%)	Cost (EUR)	Cost (%)
Material	5.28e+03	51.9	388	55.7	113	40.1
Manufacture	917	9.0	68.7	9.9	4.16	1.48
Transport	69.6	0.7	5.01	0.7	16.7	5.92
Use	3.86e+03	38.0	232	33.4	147	52.2
Disposal	32.2	0.3	2.25	0.3	0.885	0.314
Total (for first life)	1.02e+04	100	696	100	282	100
End of life potential	0		0			

Energy Analysis

[Summary](#)



	Energy (MJ/year)
Equivalent annual environmental burden (averaged over 10 year product life):	1.02e+03

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass processed** (kg)	Energy (MJ)	%
Sheet metal	Carbon steel, AISI 1340, normalized	Virgin (0%)	0.7	230	1.7e+02	5.3e+03	100.0
Total				230	1.7e+02	5.3e+03	100

*Typical: Includes 'recycle fraction in current supply'

**Where applicable, includes material mass removed by secondary processes

Manufacture:

[Summary](#)

Component	Process	% Removed	Amount processed	Energy (MJ)	%
Sheet metal	Roll forming	-	1.7e+02 kg	8.5e+02	92.4
Sheet metal	Fine machining	5	8.5 kg	64	7.0
Galvanize	Electroplating	-	0.06 m^2	5.3	0.6
Total				9.2e+02	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	Energy (MJ)	%
Transport to customer	14 tonne (2 axle) truck	15	3.6	5.2
Costumer to end-user	40 tonne (6 axle) truck	5e+02	66	94.8
Total		5.2e+02	70	100

Breakdown by components

Component	Mass (kg)	Energy (MJ)	%
Sheet metal	1.6e+02	70	100.0
Total	1.6e+02	70	100

Use:

[Summary](#)

Static mode

Energy input and output type	Electric to mechanical (electric motors)
Country of use	World
Power rating (W)	5
Usage (hours per day)	24
Usage (days per year)	3.7e+02
Product life (years)	10

Relative contribution of static and mobile modes

Mode	Energy (MJ)	%
Static	3.9e+03	100.0
Mobile	0	
Total	3.9e+03	100

Disposal:

[Summary](#)

Component	End of life option	% recovered	Energy (MJ)	%
Sheet metal	Landfill	100.0	32	100.0
Total			32	100

EoL potential:

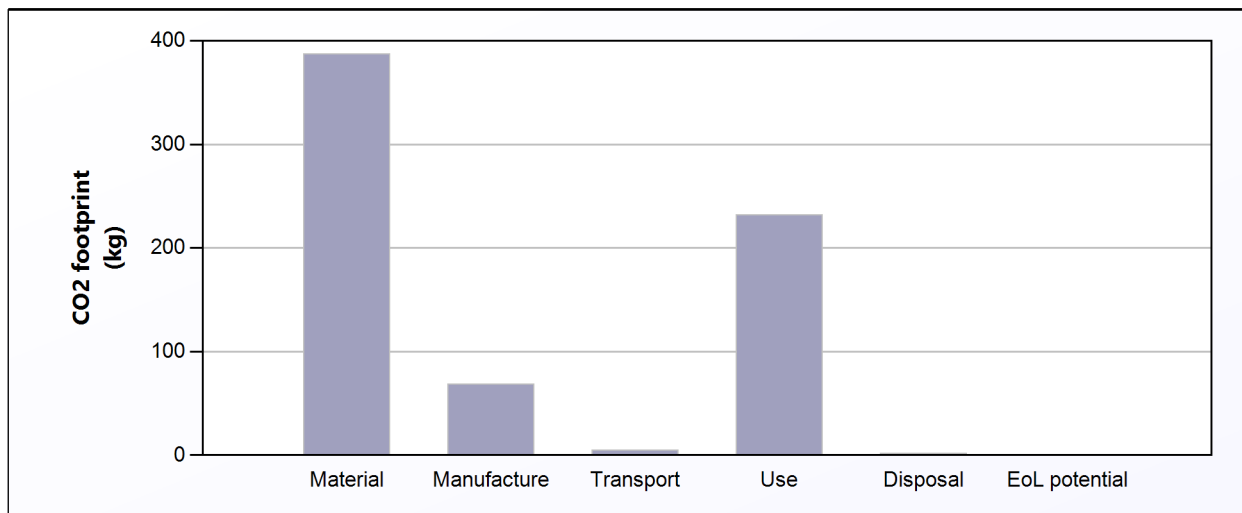
Component	End of life option	% recovered	Energy (MJ)	%
Sheet metal	Landfill	100.0	0	
Total			0	100

Notes:

[Summary](#)

CO2 Footprint Analysis

[Summary](#)



	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 10 year product life):	69.6

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass processed** (kg)	CO2 footprint (kg)	%
Sheet metal	Carbon steel, AISI 1340, normalized	Virgin (0%)	0.7	230	1.7e+02	3.9e+02	100.0
Total				230	1.7e+02	3.9e+02	100

*Typical: Includes 'recycle fraction in current supply'

**Where applicable, includes material mass removed by secondary processes

Manufacture:

[Summary](#)

Component	Process	% Removed	Amount processed	CO2 footprint (kg)	%
Sheet metal	Roll forming	-	1.7e+02 kg	64	92.6
Sheet metal	Fine machining	5	8.5 kg	4.8	7.0
Galvanize	Electroplating	-	0.06 m^2	0.29	0.4
Total				69	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	CO2 footprint (kg)	%
Transport to customer	14 tonne (2 axle) truck	15	0.26	5.2
Customer to end-user	40 tonne (6 axle) truck	5e+02	4.8	94.8
Total		5.2e+02	5	100

Breakdown by components

Component	Mass (kg)	CO2 footprint (kg)	%
Sheet metal	1.6e+02	5	100.0
Total	1.6e+02	5	100

Use:

[Summary](#)

Static mode

Energy input and output type	Electric to mechanical (electric motors)
Country of use	World
Power rating (W)	5
Usage (hours per day)	24
Usage (days per year)	3.7e+02
Product life (years)	10

Relative contribution of static and mobile modes

Mode	CO2 footprint (kg)	%
Static	2.3e+02	100.0
Mobile	0	
Total	2.3e+02	100

Disposal:

[Summary](#)

Component	End of life option	% recovered	CO2 footprint (kg)	%
Sheet metal	Landfill	100.0	2.3	100.0
Total			2.3	100

EoL potential:

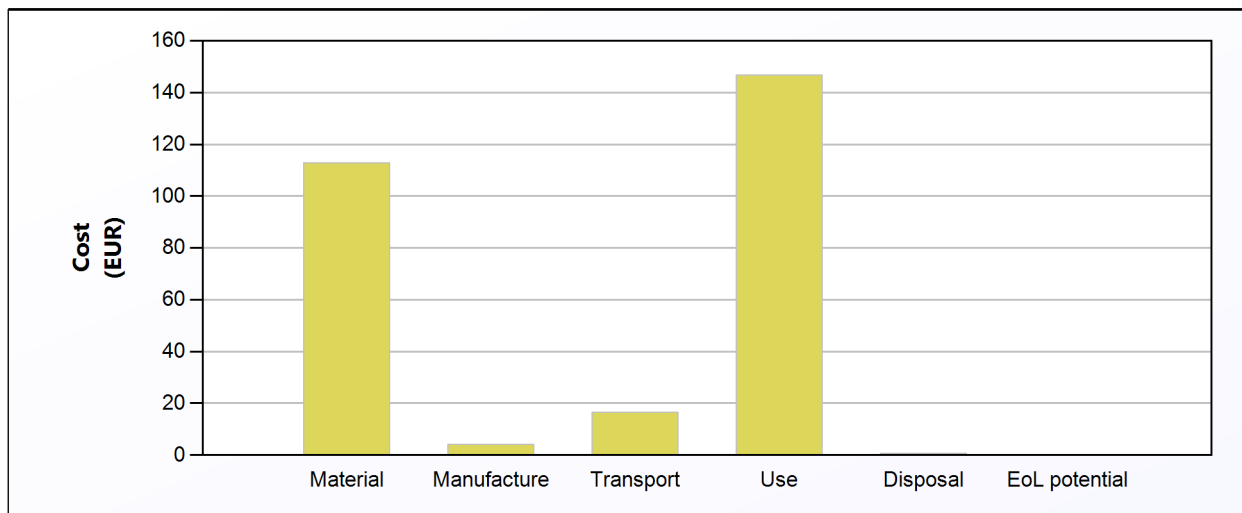
Component	End of life option	% recovered	CO2 footprint (kg)	%
Sheet metal	Landfill	100.0	0	
Total			0	100

Notes:

[Summary](#)

Cost Analysis

[Summary](#)



	Cost (EUR/year)
Equivalent annual environmental burden (averaged over 10 year product life):	28.2

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass processed** (kg)	Cost (EUR)	%
Sheet metal	Carbon steel, AISI 1340, normalized	Virgin (0%)	0.7	230	1.7e+02	1.1e+02	100.0
Total				230	1.7e+02	1.1e+02	100

*Typical: Includes 'recycle fraction in current supply'

**Where applicable, includes material mass removed by secondary processes

Manufacture:

[Summary](#)

Country of manufacture World

Component	Process	Length (m)	% Removed	Amount processed		Cost (EUR)	%
Sheet metal	Roll forming	2	-	1.7e+02	kg	0.86	20.8
Sheet metal	Fine machining	-	5	8.5	kg	3.2	78.0
Galvanize	Electroplating	-	-	0.06	m^2	0.05	1.2
Total						4.2	100

Transport:

[Summary](#)

Package dimensions

Height (m)	Width (m)	Depth (m)
2	1	0.025

Breakdown by transport stage

Stage name	Transport type	Distance (km)	Cost (EUR)	%
Transport to customer	14 tonne (2 axle) truck	15	5	30.2
Customer to end-user	40 tonne (6 axle) truck	5e+02	12	69.8
Total		5.2e+02	17	100

Breakdown by components

Component	Mass (kg)	Cost (EUR)	%
Sheet metal	1.6e+02	17	100.0
Total	1.6e+02	17	100

Use:

[Summary](#)

Static mode

Energy input and output type	Electric to mechanical (electric motors)
Country of use	World
Fuel rate	Domestic
Power rating (W)	5
Usage (hours per day)	24
Usage (days per year)	3.7e+02
Product life (years)	10

Relative contribution of static and mobile modes

Mode	Cost (EUR)	%
Static	1.5e+02	100.0
Mobile	0	
Total	1.5e+02	100

Disposal:

[Summary](#)

Component	End of life option	% recovered	Cost (EUR)	%
Sheet metal	Landfill	100.0	0.89	100.0
Total			0.89	100

